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a first device for measuring the at least one status parameter associated with the at least one wheel;

a second device for transmitting a signal indicating a value measured by the first device, wherein the second device comprises a battery;

a third device for receiving the signal; and

a fourth device for sensing movement of the at least one wheel and for enabling energization of the second device when the at least one wheel is moving;

wherein the first device, the second device, and the fourth device are housed in a container inserted into a wall of the inner tube in a radially-inner position of the inner tube with respect to the at least one wheel.

26. (new) The system of claim 25, wherein the fourth device is an acceleration switch.

27. (new) The system of claim 25, wherein the container is inserted into a bushing fixed in the wall of the inner tube.

28. (new) The system of claim 25, wherein the first device comprises a pressure sensor.

29. (new) The system of claim 25, wherein the first device comprises a temperature sensor.

LAW OFFICES

FINNEGAN, HENDERSON,  
FARABOW, GARRETT,  
& DUNNER, L.L.P.  
1300 I STREET, N. W.  
WASHINGTON, DC 20005  
202-408-4000

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FOOTNOTES

30. (new) The system of claim 25, wherein the second device further comprises a fifth device for measuring a voltage of the power-supply battery, and wherein the second device transmits a value of the measured voltage using a radio-frequency signal.

31. (new) The system of claim 25, further comprising a sixth device for displaying the signal.

32. (new) The system of claim 25, wherein the inner tube comprises at least two compartments separate from each other and each provided with a first device.

33. (new) A wheel for vehicles, comprising:

- a tyre mounted on a rim;
- an inner tube inserted into a cavity defined between the tyre and the rim;
- a first device for measuring at least one status parameter of the tyre associated with the wheel;
- a second device for transmitting a signal indicating a value measured by the first device, wherein the second device comprises a battery; and
- a third device for sensing movement of the wheel and for enabling energization of the second device when the wheel is moving;

wherein the first device, the second device, and the third device are housed in a container inserted into a wall of the inner tube in a radially-inner position of the inner tube with respect to the wheel.

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FARABOW, GARRETT,  
& DUNNER, L.L.P.  
1300 I STREET, N. W.  
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34. (new) The wheel of claim 33, wherein the third device is an acceleration switch.

35. (new) The wheel of claim 33, wherein the first device comprises a pressure sensor.

36. (new) The wheel of claim 33, wherein the first device comprises a temperature sensor.

37. (new) A wheel for vehicles, comprising:

a tyre mounted on a rim;

a first device for measuring at least one status parameter of the tyre associated with the wheel;

a second device for transmitting a signal indicating a value measured by the first device, wherein the second device comprises a battery;

a third device for sensing movement of the wheel, designed to connect the battery to the second device when the wheel is moving;

wherein the first device, the second device, and the third device are housed in a container, and

wherein the container is inserted into the rim from an outside of the rim by screwing the container into a threaded bushing.

38. (new) The wheel of claim 37, wherein the third device is an acceleration switch.

39. (new) The wheel of claim 37, wherein the first device comprises a pressure sensor.

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& DUNNER, L.L.P.  
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WASHINGTON, DC 20005  
202-408-4000